UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

	<u> </u>			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,643	10/17/2003	Daryl R. Sugden	064552.0237	1951
23640 BAKER BOTT	7590 11/21/2001 S. LLP	EXAMINER		
910 LOUISIAN	JA	FERGUSON, MICHAEL P		
HOUSTON, TX 77002-4995			ART UNIT	PAPER NUMBER
			3679	
			NOTIFICATION DATE	DELIVERY MODE
			11/21/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

debbie.allen@bakerbotts.com

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
·	10/688,643	SUGDEN, DARYL R.				
Office Action Summary	Examiner	Art Unit				
	Michael P. Ferguson	3679				
The MAILING DATE of this communication a						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statt Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a rep of will apply and will expire SIX (6) MONT ute, cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29	October 2007.					
2a) This action is FINAL . 2b) ⊠ Th	This action is FINAL . 2b)⊠ This action is non-final.					
	•					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application	4)⊠ Claim(s) 1-5 is/are pending in the application.					
4a) Of the above claim(s) 3-5 is/are withdraw	4a) Of the above claim(s) <u>3-5</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.)⊠ Claim(s) <u>1 and 2</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
10)⊠ The drawing(s) filed on <u>17 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre	= -					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119		·				
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	Paper No(s))/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of In	formal Patent Application				

10/688,643 Art Unit: 3679

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 22, 2007 has been entered.

Examiner notes that the amendment filed October 29, 2007 is a duplicate of the April 3, 2007 amendment, and is not a copy of the previous After Final amendment dated August 22, 2007. Clearly Applicant intended to submit a copy of the After Final amendment to be entered into prosecution. Accordingly, the October 29, 2007 amendment has not been entered. The August 22, 2007 amendment has been entered and treated on its merits as set forth below.

Election/Restrictions

2. Claims 3-5 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on June 15, 2005.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

10/688,643 Art Unit: 3679

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Orr (US 1,214,709) in view of Sjostedt (US 7,137,617).

As to claim 1, Orr discloses a wire rope and socket combination; comprising: a wire rope socket 10:

a rope formed of strands **a** of twisted wires extending into the wire rope socket; strands **a**¹ of the twisted wires being bent over 180 degrees within the wire rope socket;

strand a^2 of the twisted wires remaining unbent (strand a^2 is not deformed or bent, instead the strand is left in its original axial position; page 2 lines 2-10) within the wire rope socket, wherein the selection of the number of strands of twisted wire bent over 180 degrees and the selection of the number of strands of twisted wire remaining unbend are made to set the breaking strength of the wire rope socket; and

babbit 19 securing the rope in the wire rope socket (Figures 1 and 4).

Orr fails to disclose a combination wherein the wire socket is internally threaded, and wherein a vent hole is located below the threaded portion of the socket.

Sjostedt teaches a wire rope and socket combination comprising a wire rope socket 12,16 wherein the wire rope socket is internally threaded 38,20, and wherein a vent hole 42 is located below the threaded portion of the socket; the internally threaded socket enabling interchangeable use of a variety of different attachment ends 22 with a single rope 60; and the vent hole enabling one to densely in-fill the socket with adhesive

10/688,643 Art Unit: 3679

under pressure to provide for an extremely secure, slip-free engagement, without concern of the adhesive over-filling into the threaded portion of the socket (Figures 1, 4-7 and 25, column 3 lines 17-40, column 6 line 64- column 7 line 6). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the combination disclosed by Orr to have an internally threaded socket wherein a vent hole is located below the threaded portion of the socket as taught by Sjostedt in order to enable interchangeable use of a variety of different attachment ends with the rope, and to enable one to densely in-fill the socket with babbit under pressure to provide for an extremely secure, slip-free engagement, without concern of the babbit over-filling into the threaded portion of the socket.

As to claim 2, Orr discloses a wire rope and socket combination wherein the wire rope socket **10** has a tapered bore, and the bent strands **a**¹ are bent in the direction of narrowing of the tapered bore (Figure 1).

5. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaw (US 5,136,755) in view of Sjostedt.

As to claim 1, Shaw discloses a wire rope and socket combination; comprising: a wire rope socket **20**:

a rope formed of strands 11,13 of twisted wires extending into the wire rope socket;

strands **11** of the twisted wires being bent over 180 degrees within the wire rope socket (shown in Figure 9);

10/688,643 Art Unit: 3679

strand 13 of the twisted wires remaining unbent within the wire rope socket, wherein the selection of the number of strands of twisted wire bent over 180 degrees and the selection of the number of strands of twisted wire remaining unbend are made to set the breaking strength of the wire rope socket; and

babbit **29** (formed be melting strands **11**; column 8 lines 51-58) securing the rope in the wire rope socket (Figures 8-11).

Shaw fails to disclose a combination wherein the wire socket is internally threaded, and wherein a vent hole is located below the threaded portion of the socket.

Sjostedt teaches a wire rope and socket combination comprising a wire rope socket 12,16 wherein the wire rope socket is internally threaded 38,20, and wherein a vent hole 42 is located below the threaded portion of the socket; the internally threaded socket enabling interchangeable use of a variety of different attachment ends 22 with a single rope 60; and the vent hole enabling one to densely in-fill the socket with adhesive under pressure to provide for an extremely secure, slip-free engagement, without concern of the adhesive over-filling into the threaded portion of the socket (Figures 1, 4-7 and 25, column 3 lines 17-40, column 6 line 64- column 7 line 6). Accordingly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the combination disclosed by Shaw to have an internally threaded socket wherein a vent hole is located below the threaded portion of the socket as taught by Sjostedt in order to enable interchangeable use of a variety of different attachment ends with the rope, and to enable one to densely in-fill the socket with babbit under

10/688,643 Art Unit: 3679

pressure to provide for an extremely secure, slip-free engagement, without concern of the babbit over-filling into the threaded portion of the socket.

As to claim 2, Shaw discloses a wire rope and socket combination wherein the wire rope socket **20** has a tapered bore, and the bent strands **11** are bent in the direction of narrowing of the tapered bore (Figures 9 and 11).

Response to Arguments

5. Applicant's arguments with respect to claims 1 and 2 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to the applicant's disclosure. The following patents show the state of the art with respect to wire rope-socket combinations:

Browne (US 4,043,690) and Davis (US 3,660,887) are cited for pertaining to combinations comprising a wire rope, a threaded socket and babbit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Ferguson whose telephone number is (571)272-7081. The examiner can normally be reached on M-F (6:30am-3:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571)272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/688,643 Art Unit: 3679

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MPF

11/16/07

Michael P. Ferguson
Patent Examiner

Technology Center 3600